



Results tabulation for 15098/BA PT0088: Salmonella in poultry

Distribution Date: 09/08/2022

Culture	22/1643		22/1644		22/1645		22/1646	
	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Simulated boot swabs - Citrobacter youngae + Escherichia coli		Simulated 10 g carcass - Citrobacter youngae + Pseudomonas aeruginosa		Simulated 10 g faeces - Salmonella Typhimurium (approx. 18,000) cfu per vial)		Simulated chick box liner - Citrobacter youngae + Escherichia coli	
	-ve	Negative	-ve	Negative	+ve	Group B	-ve	Negative
1002	-ve	N/A	-ve	N/A	+ve	Typhimurium	-ve	N/A
1023	-ve		-ve		+ve		-ve	
1033	-ve		-ve		+ve	B/Typhimurium	-ve	
1067	-ve		-ve		+ve	S. Typhimurium	-ve	
1076	-ve		-ve		+ve	S. typhimurium	-ve	
1081	-ve	Not Detected	-ve	Not Detected	+ve	S. Typhimurium	-ve	Not Detected
1089	-ve		-ve		+ve		-ve	
1114	-ve		-ve		+ve	S. Typhimurium	-ve	
1115	-ve		-ve		+ve		-ve	
1127	-ve		-ve		+ve	B	-ve	
1133	-ve	Negative	-ve	Negative	+ve	Group B	-ve	Negative
1143	-ve	Negative	-ve	Negative	+ve	Group B	-ve	Negative
1157	-ve		-ve		+ve	Salm. (Gp. B)	-ve	
1158	-ve	-	-ve	-	+ve	S. Typhimurium	-ve	-
1161	-ve		-ve		+ve		-ve	
1188	+ve		-ve		+ve	Group B	+ve	
1198	-ve		-ve		+ve	Group B	-ve	
1217	-ve		-ve		+ve	O:4(B)	-ve	
1235	-ve		-ve		+ve	S. Typhimurium	-ve	
1387	-ve		-ve		+ve	pos groep B	-ve	
1423	-ve		-ve		+ve	Salmonella spp.	-ve	
1436	-ve		-ve		+ve	S.Typhimurium	-ve	
1480	-ve	/	-ve	/	+ve	S. Typhimurium	-ve	/
1521	Unable to Test							
1524	-ve		-ve		+ve	S.Typhimurium	-ve	
1559	-ve		-ve		+ve	S. Typhimurium	-ve	
1626	-ve		-ve		+ve		-ve	

Culture	22/1643		22/1644		22/1645		22/1646	
	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Simulated boot swabs - Citrobacter youngae + Escherichia coli		Simulated 10 g carcass - Citrobacter youngae + Pseudomonas aeruginosa		Simulated 10 g faeces - Salmonella Typhimurium (approx. 18,000) cfu per vial)		Simulated chick box liner - Citrobacter youngae + Escherichia coli	
	-ve	Negative	-ve	Negative	+ve	Group B	-ve	Negative
1638	-ve		-ve		+ve		-ve	
1641	-ve		-ve		+ve	B, Typhimurium	-ve	
1647	-ve		-ve		+ve	S. Typhimurium	-ve	
1654	-ve	N/A	-ve	N/A	+ve	Group B	-ve	N/A
1658	-ve	-	-ve	-	+ve	-	-ve	-
1669	-ve		-ve		+ve	S. Typhimurium	-ve	
1700	-ve		-ve		+ve	S.Typhimurium	-ve	
1703	-ve		-ve		+ve	Serogroup B	-ve	
1708	-ve		-ve		+ve	Typhimurium	-ve	
1733	-ve		-ve		+ve		-ve	
1770	-ve		-ve		+ve	B O4+ Hi+	-ve	
1884	-ve		-ve		+ve		-ve	
1894	-ve		-ve		+ve	S. Typhimurium	-ve	
1905	-ve		-ve		+ve		-ve	
1944	-ve		-ve		+ve	B typhimurium	-ve	
1947	-ve		-ve		+ve	S. typhimurium	-ve	
1980	-ve		-ve		+ve	S.TyphimuriumB	-ve	
2021	-ve		-ve		+ve		-ve	
2027	-ve		-ve		+ve	S.Typhimurium	-ve	
2053	-ve		-ve		+ve	Salmonella spp	-ve	
2096	-ve		-ve		+ve		-ve	
2098	-ve	Not Salmonella	-ve	Not Salmonella	+ve	B / Typhimurium	-ve	Not Salmonella
2111	-ve		-ve		+ve	S. Typhimurium	-ve	
2112	-ve	n/a	-ve	n/a	+ve	B	-ve	n/a
2143	-ve		-ve		+ve	S.Typhimurium	-ve	
2146	-ve		-ve		+ve		-ve	
2204	-ve		-ve		+ve		-ve	
2212	-ve		-ve		+ve	Salmonella spp.	-ve	
2229	-ve		-ve		+ve	S. Typhimurium	-ve	
2240	-ve		-ve		+ve		-ve	
2274	-ve		-ve		+ve		-ve	
2356	-ve		-ve		+ve		-ve	
2426	-ve		-ve		+ve		-ve	
2472	-ve		-ve		+ve	S. Typhimurium	-ve	
2508	Unable to Test							
2532	-ve		-ve		+ve	B/S.typhimurium	-ve	
2552	-ve		-ve		+ve		-ve	
2578	Unable to Test							
2628	-ve		-ve		+ve	Group B/O:4,5:2	-ve	
2662	-ve		-ve		+ve	Group B	-ve	
2670	-ve		-ve		+ve	Group B	-ve	

Culture	22/1643		22/1644		22/1645		22/1646	
	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Simulated boot swabs - Citrobacter youngae + Escherichia coli		Simulated 10 g carcass - Citrobacter youngae + Pseudomonas aeruginosa		Simulated 10 g faeces - Salmonella Typhimurium (approx. 18,000) cfu per vial)		Simulated chick box liner - Citrobacter youngae + Escherichia coli	
	-ve	Negative	-ve	Negative	+ve	Group B	-ve	Negative
2755	-ve		-ve		+ve	Group B	-ve	
2762	-ve		-ve		+ve		-ve	
2767	-ve		-ve		+ve	Group B	+ve	Group B
2773	+ve	OMC	+ve	OMC	+ve	O:4 (B)	+ve	OMC
2889	-ve	N/A	-ve	N/A	+ve	B	-ve	N/A
2907	-ve	Negative	-ve	Negative	+ve	Group B	-ve	Negative
2925	Unable to Test							
3086	-ve		-ve		+ve	S. Typhimurium	-ve	
3174	-ve		-ve		+ve		-ve	
3361	-ve		-ve		+ve	Group B	-ve	
3536	-ve		-ve		+ve		-ve	
3727	-ve		-ve		+ve	O:4 (Gr. B)	-ve	

Culture	22/1647	
	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Simulated 10 g faeces - Citrobacter youngae + Pseudomonas aeruginosa	
	-ve	Negative
1002	-ve	N/A
1023	-ve	
1033	-ve	
1067	-ve	
1076	-ve	
1081	-ve	Not Detected
1089	-ve	
1114	-ve	
1115	-ve	
1127	-ve	
1133	-ve	Negative
1143	-ve	Negative
1157	-ve	
1158	-ve	-
1161	-ve	
1188	-ve	
1198	-ve	
1217	-ve	
1235	-ve	
1387	-ve	

Culture	22/1647	
	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Simulated 10 g faeces - Citrobacter youngae + Pseudomonas aeruginosa	
	-ve	Negative
1423	-ve	
1436	-ve	
1480	-ve	/
1521	Unable to Test	
1524	-ve	
1559	-ve	
1626	-ve	
1638	-ve	
1641	-ve	
1647	-ve	
1654	-ve	N/A
1658	-ve	-
1669	-ve	
1700	-ve	
1703	-ve	
1708	-ve	
1733	-ve	
1770	-ve	
1884	-ve	
1894	-ve	
1905	-ve	
1944	-ve	
1947	-ve	
1980	-ve	
2021	-ve	
2027	+ve	
2053	-ve	
2096	-ve	
2098	-ve	No growth
2111	-ve	
2112	-ve	n/a
2143	-ve	
2146	-ve	
2204	-ve	
2212	-ve	
2229	-ve	
2240	-ve	
2274	-ve	
2356	-ve	
2426	-ve	
2472	-ve	

Culture	22/1647	
	Interpretation (+ve/-ve/IC)	Salmonella Group/Type
Intended	Simulated 10 g faeces - Citrobacter youngae + Pseudomonas aeruginosa	
	-ve	Negative
2508	Unable to Test	
2532	-ve	
2552	-ve	
2578	Unable to Test	
2628	-ve	
2662	-ve	
2670	-ve	
2755	-ve	
2762	-ve	
2767	-ve	
2773	-ve	
2889	-ve	N/A
2907	-ve	Negative
2925	Unable to Test	
3086	-ve	
3174	-ve	
3361	-ve	
3536	-ve	
3727	IC	

Intended results were determined using BPW into MSR/V agar.

Comments provided by Anne Bollard, APHA Quality Assurance Unit

This distribution comprised of one positive and four negative Salmonella samples.

Sample 22/1643 - Simulated boot swabs - Citrobacter youngae + Escherichia coli – Negative

Most labs reported correct results as this sample being negative for Salmonella.

Lab 1188 incorrectly reported Salmonella positive without identification of a serogroup or serotyping test result. This result was based on using any one or more of the detection and identification techniques reported using culture, PCR, agglutination and/or VITEK techniques so without further details it is difficult to comprehend the cause for this anomaly.

Lab 2773 incorrectly reported Salmonella positive and serotyped to spp. group. This result was based on using an isolation method followed by slide agglutination and Schwörm Agar for Salmonella H-phase detection and serovar/group identification. The Citrobacter isolate could possibly be the root cause for causing this anomaly. If so, Citrobacter can simulate suspect Salmonella to the less discerning eye by morphology, poly-O agglutination reaction and being oxidase and NPA negative, however poly-H negative and PYRase positive which are basic tests to differentiate being Salmonella negative.

Sample 22/1644 - Simulated 10g carcass - Citrobacter youngae + Pseudomonas aeruginosa – Negative

All labs other than 2773 reported correct results as this sample being negative for Salmonella.

To note here, Lab 1188 correctly reported this sample as negative.

Lab 2773 incorrectly reported Salmonella positive and serotyped to spp. group, likely being due to misidentification as discussed above.

Sample 22/1645 – Simulated 10g faeces – Salmonella Typhimurium (approx. 18,000 cfu per vial) – Positive – Group B

All labs correctly detected Salmonella and those reporting to serogroup or serotype correctly reported as serogroup B and or Typhimurium.

Sample 22/1646 - Simulated chick box liner - Citrobacter youngae + Escherichia coli – Negative

Most labs reported correct results as this sample being negative for Salmonella.

Labs 1188, 2767 and 2773 incorrectly reported Salmonella positive.

Lab 1188 incorrectly reported Salmonella positive without identification of a serogroup or serotyping test result.

Lab 2767 identified to serogroup B indicating cross-contamination with sample 22/1645 or suchlike at some point during their procedure which includes using the Wellcolex Colour Salmonella Rapid Latex Agglutination kit.

Lab 2773 incorrectly reported Salmonella positive and serotyped to spp. group indicating this was not due to cross-contamination and more likely misidentification as discussed above.

Sample 22/1647 - Simulated 10g faeces - Citrobacter youngae + Pseudomonas aeruginosa – Negative

Most labs reported correct results as this sample being negative for Salmonella.

To note here, Labs 1188 and 2773 both correctly reported the sample as negative.

Lab 2027 incorrectly reported Salmonella positive using BPW, MSRV, BGA, XLD, BA, McC, NA, TSI media, urease and biochemical tests. Unlike for positive sample 22/1645 a serotyping result was not recorded which likely indicates this anomaly was due to a results submission error with the drop-down menu function. If so, it is always advised to double check results entered on PT-LIMS by returning to the page after saving.

Lab 3727 reported inconclusive using selective media and serological testing without any serotyping result unlike for positive sample 22/1645. It is difficult to comprehend if this anomaly is due to a similar result reporting error or a genuine breakdown in the testing process with this sample.

Laboratories discussed above are recommended to review and investigate their results. Should repeat samples be required to help with investigations please contact VETQAS@apha.gov.uk.



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